

# WP 05-WH1202

Revision 2

## TP-III Monorail Hoist

Technical Procedure

EFFECTIVE DATE: 05/08/17

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APPROVED FOR USE

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**CHANGE HISTORY SUMMARY**

<b>REVISION NUMBER</b>	<b>DATE ISSUED</b>	<b>DESCRIPTION OF CHANGES</b>
0	06/01/11	This is a new document.
1	06/28/11	Added bullets to Precautions and Limitations on: <ul style="list-style-type: none"><li>• Personnel being aware of suspended loads</li><li>• Stop work if hazards not previously recognized ID'd</li></ul> Added Caution above step 1.1 Added Note above step 2.1
2	05/08/17	Complete rewrite: <ul style="list-style-type: none"><li>• Updated format.</li><li>• Reworded PREREQUISITE ACTIONS.</li><li>• Changed the CAUTION to a WARNING since it's a personnel hazard.</li><li>• Updated Introduction section.</li><li>• Corrected JHA number.</li><li>• Added inspection date current per JHA.</li><li>• Moved preoperational requirements to attachment 1.</li></ul>

## 1.0 INTRODUCTION

This procedure provides the required instructions for inspecting the TRUPACT-III (TP-III) Monorail Hoist (Equipment #41-H-027) at the Waste Isolation Pilot Plant (WIPP).

Performance of this procedure, or selected sections of the procedure, implements inspection requirements of the Hazardous Waste Facility Permit (HWFP) relative to the scope of, and as defined in, this document.

Performance of this procedure generates the following record. Records generated are handled in accordance with departmental Records Inventory and Disposition Schedules (RIDS).

- Equipment Logbook

## 2.0 REFERENCES

DOCUMENT NUMBER AND TITLE	BASELINE DOCUMENT	REFERENCED DOCUMENT	KEY STEP
40 Code of Federal Regulations (CFR) §264.15, <i>General Inspection Requirements</i>	✓		
DOE Standard 1090-2007, <i>Hoisting and Rigging</i>	✓		
Hazardous Waste Facility Permit, EPA Identification Number NM4890139088-TSDF	✓		(\$)
Detroit Hoist & Crane Co. Operations and Maintenance Manual	✓		
WP 05-WH1101, <i>CH Surface Transuranic Mixed Waste Handling Area Inspections</i>		✓	
WP 15-GM1002, <i>Issues Management Processing of WIPP Forms</i>		✓	
STDJHA-443, TP-III Monorail Hoist (7.5 ton)	✓		

**3.0 PRECAUTIONS AND LIMITATIONS**

- 3.1 Preoperational checks are required prior to first hoist operation each shift.
- 3.2 Hoist must be moved slowly when operating in close proximity to limit switches to avoid overrunning them.
- 3.3 Hard hat and safety toe shoes required when inside of hoist envelope while hoist is in operation.
- 3.4 All personnel are to be aware of suspended loads.
- 3.5 During load movements that impair the hoist operator's view a spotter shall be used.
- 3.6 If a hazard not previously recognized is found, work shall be stopped and Waste Handling Engineer (WHE) shall be notified.
- 3.7 If procedure cannot be performed as written, WHE shall be contacted.

**4.0 PREREQUISITE ACTIONS**

None

## 5.0 PERFORMANCE

### 5.1 PREOPERATIONAL CHECKS

5.1.1 Waste Handler (WH), **REVIEW** Equipment Logbook for outstanding deficiencies and Action Requests (ARs).

5.1.2 **IF** a required inspection becomes delinquent or has failed, **THEN PERFORM** the following:

- [ A ] **IMMEDIATELY NOTIFY** the on-call Site Environmental Compliance (SEC) Representative and the Central Monitoring Room Operator (CMRO) of the delinquent or failed inspection.
- [ B ] **SCHEDULE AND COMPLETE** the required inspection.
- [ C ] **DOCUMENT** the following **AND SUBMIT** to the SEC Manager within five working days.
  - Schedule for inspection
  - Reason(s) why the inspection was not performed.
  - Any compensatory measures taken to offset negative impacts resulting from not performing the inspection.
  - Actions to prevent further delinquencies.
- [ D ] WHE, **GO TO** WP 15-GM1002, *Issues Management Processing of WIPP Forms*, **AND ENSURE** a WIPP form is generated.

**NOTE**

Deficiencies that are corrected when discovered may be considered a satisfactory check.

**WARNING**

Be aware of overhead falling objects. Hard hat and safety toe shoes required in hoist envelope when hoist is on or overhead/elevated work is being performed.

**HWFP**

5.1.3 **(\$)** **COMPLETE** Attachment 1, *Monorail Hoist Preoperational Checks*, **AND NOTIFY** WHE of any deficiencies discovered during preoperational checks and status of each. **[HWFP Table E-1]**

5.1.4 **RECORD** the following information in equipment logbook:

- Deficiencies noted
- Corrective actions taken (e.g., outstanding or newly generated action requests (ARs))
- Hour/meter reading
- Equipment number
- Procedure number
- Sat or Problems Noted
- Date and time of preoperational check
- Signature

5.1.5 **NOTIFY** WHE on operating status of hoist.

5.1.6 **IF** in waste handling mode,  
**THEN GO TO** WP 05-WH1101, *CH Surface Transuranic Mixed Waste Handling Area Inspections*,  
**AND COMPLETE** Monorail Hoist 41-H-027 section in attachment, *TP-III Preoperational Waste Handling Mode Checklist*.

**HWFP (\$)** Attachment 1 - Monorail Hoist Preoperational Checks [HWFP Table E-1]

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**NOTE 1**

Deficiencies that are corrected when discovered may be considered a satisfactory check.

**NOTE 2**

Activities in this Checklist may be performed in any order.

	INSPECTION	CRITERIA	SAT	NA	UNSAT
1	General Condition Checks	General Condition: <b>NO</b> damage, loose parts, oil leaks, grease, <b>OR</b> trash	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		All guards are in proper place	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Wire rope is properly wound on drum	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Trolley path is clear of obstructions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Inspection date is current on hoisting equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Transmitter	<b>ENSURE</b> controls operate freely <b>AND DO NOT</b> stick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH ON/ALARM</b> button	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>ENSURE</b> horn works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>ENSURE</b> scoreboard display illuminates <b>AND</b> hoist warning light is <b>ON</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>ENSURE</b> green LED light on transmitter is <b>ON</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Transmitter Controls	<b>PUSH</b> Hoist up 1 <b>AND VERIFY</b> hoist travels up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Hoist down 1 <b>AND VERIFY</b> hoist travels down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Hoist up 2 <b>AND VERIFY</b> hoist travels up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Hoist down 2 <b>AND VERIFY</b> hoist travels down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Trolley North 1 <b>AND VERIFY</b> hoist trolley's north	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Trolley South 1 <b>AND VERIFY</b> hoist trolley's south	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Trolley North 2 <b>AND VERIFY</b> hoist trolley's north	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> Trolley South 2 <b>AND VERIFY</b> hoist trolley's south	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Visually <b>INSPECT</b> for excessive wear on sheaves, wire rope, <b>AND</b> hook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CONTINUOUS USE



**HWFP (\$ Attachment 1 - Monorail Hoist Preoperational Checks [HWFP Table E-1]**

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	INSPECTION	CRITERIA	SAT	NA	UNSAT
4	Backup Pendant	<b>ENSURE</b> controls operate freely <b>AND DO NOT</b> stick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH ON</b> button	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>ENSURE</b> that horn works	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>ENSURE</b> scoreboard display illuminates and hoist warning light is <b>ON</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Backup Pendant Controls	<b>PUSH</b> micro up <b>AND VERIFY</b> hoist travels up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> turbo up <b>AND VERIFY</b> hoist travels up	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> micro down <b>AND VERIFY</b> hoist travels down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> turbo down <b>AND VERIFY</b> hoist travels down	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> micro north <b>AND VERIFY</b> hoist travels north	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> turbo north <b>AND VERIFY</b> hoist travels north	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> micro south <b>AND VERIFY</b> hoist travels south	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>PUSH</b> turbo south <b>AND VERIFY</b> hoist travels south	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Visually <b>INSPECT</b> for excessive wear on sheaves, wire rope, <b>AND</b> hook	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>